

Patent claims

- 5 1. Laminate composed of at least a first layer of an elastic polymer film and of a second layer of an elastic textile sheet, where the finished laminate has a microscopic and/or macroscopic embossed effect.
- 10 2. Laminate according to Claim 1, characterized in that the weight per unit area of the polymer film is from 15 to 150 g/m², in particular from 35 to 60 g/m², and/or the weight per unit area of the textile sheet is from 25 to 200 g/m², in particular from 30 to 100 g/m².
- 15 3. Laminate according to Claims 1 and 2, characterized in that the polymer film of the first layer has a structure of more than one layer of a copolymer of ethylene and polar comonomers or of a mixture of LDPE and an LLDPE, prepared by a metallocene-catalysed process.
- 20 4. Laminate according to Claims 1 to 3, characterized in that the polymer film of the first layer is a copolymer of ethylene and an α -olefin having a carbon number of from C₄ to C₁₀, where the polyolefin has a melt index of from 1 to 20 g/(10 min) and a density of from 860 to 900 kg/m³.
- 25 5. Laminate according to Claims 1 to 4, characterized in that the first layer is composed of two coextruded layers with an outer layer and a tie layer, where the tie layer is composed of pure thermoplastic polyolefins without addition of additives or colorants.
- 30 6. Laminate according to Claims 1 to 5, characterized in that the polymer film of the first layer comprises at least 65% of a thermoplastic elastomer.
- 35 7. Laminate according to Claims 1 to 6, characterized in that a self-adhesive coating has been applied onto the textile sheet side.
8. Process for producing a laminate according to at least one of the preceding claims, characterized in that
- a) polymer granules or mixtures of polymer granules are melted in one or more extruders,

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- b) the polymer melts of the extruders are brought together in a feed block, and a multilayer structure of the polymer film is formed in the slot die,
 - c) the melt film formed is applied to a textile sheet,
 - d) the resultant laminate is compressed through a calender unit and cooled, and
 - e) the surface of the polymer film of the laminate is embossed, preferably using a cylindrical steel roll.
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9. Process according to Claim 8, characterized in that, after extrusion, the polymer melt film is passed between a previously produced elastic polymer film and the textile sheet, and is then cooled.
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10. Use of a laminate according to at least one of the preceding claims as a medical backing material, where a skin-compatible self-adhesive coating has been applied to the nonwoven side.
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11. Use of a laminate according to at least one of the preceding claims as a medical backing material, where the laminate provided with the self-adhesive coating is physically perforated.
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12. Use of a laminate according to at least one of the preceding claims as carrier for a hygiene item, in particular a nappy or an incontinence product.
13. Use of a laminate according to at least one of the preceding claims as a single-use covering material for uses associated with surgical procedures.
14. Use of a laminate according to at least one of the preceding claims as a material employed in protective clothing.

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